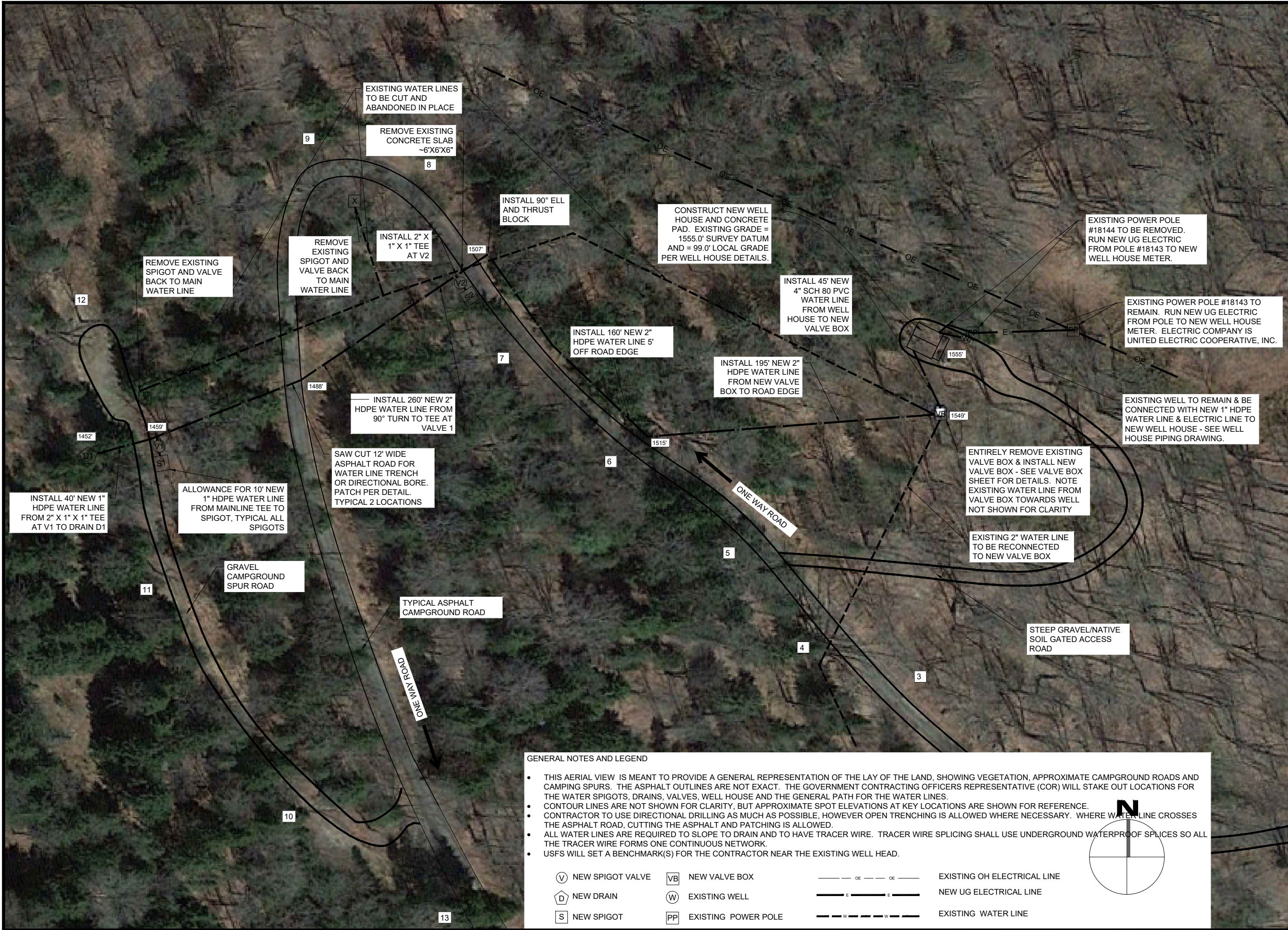


2/25 09:36 RUSUTTON C:\USERS\RUSUTTON\BOXR09 RO ENG PROGRAMS\7420 WATER & 7430 WASTE WATER\JAY&RUSS FILES\ANFW\WAWW SYSTEMS\LOLETA UPPER WELLS\LOLETA CG WS DESIGN 1-30-2025.DWG;





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Forest Service

R09
EASTERN REGION

STAMPS, LOGOS, AND SEALS

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PROJECT NAME

**LOLETA
RECREATION
AREA WATER
SYSTEM
IMPROVEMENTS -
PHASE 1**

**ALLEGHENY
NATIONAL FOREST**

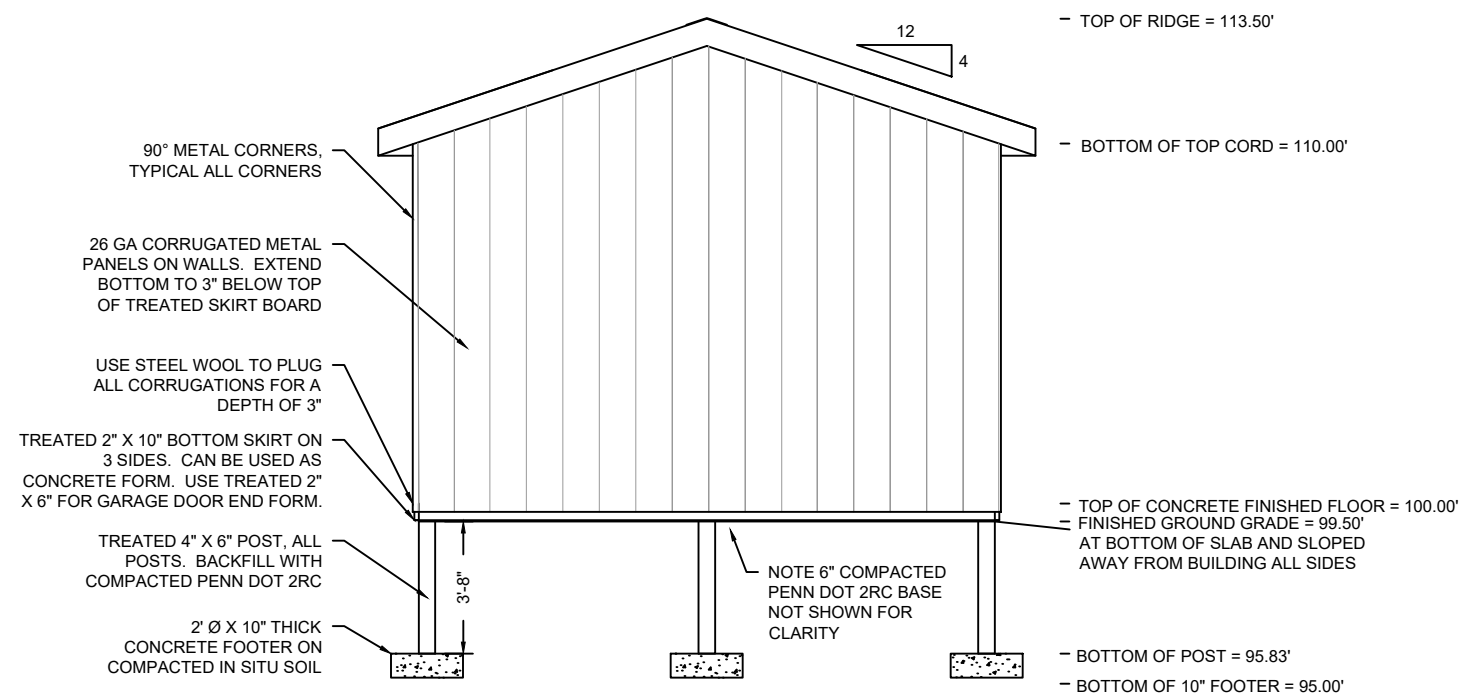
MARIENVILLE
RANGER DISTRICT

DRAWING TITLE

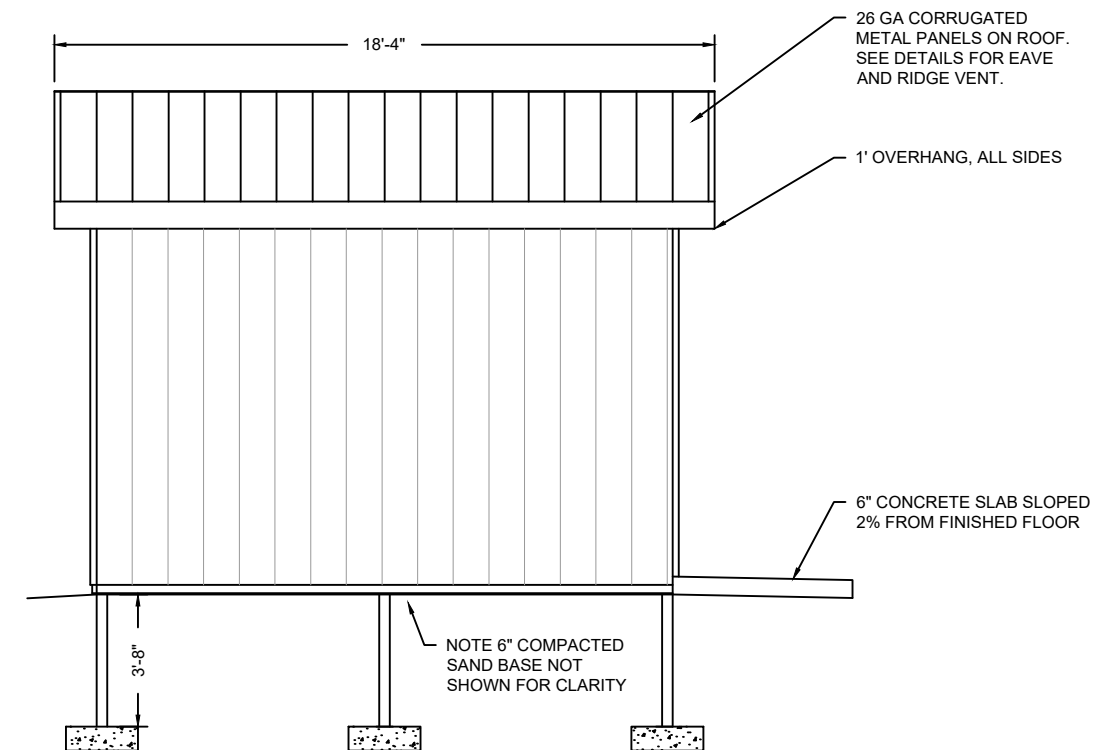
**SITE PLAN
WITH AERIAL IMAGE**

DATE 01/21/2025	ARCHIVE NO.
DESIGNER R. SUTTON	DRAWING SHEET NO. C-01
DRAWN R. SUTTON	
CHECKED A. LESHER	
PROJECT NO. 091902-RWS2024-0002D	SHEET 2 OF 12

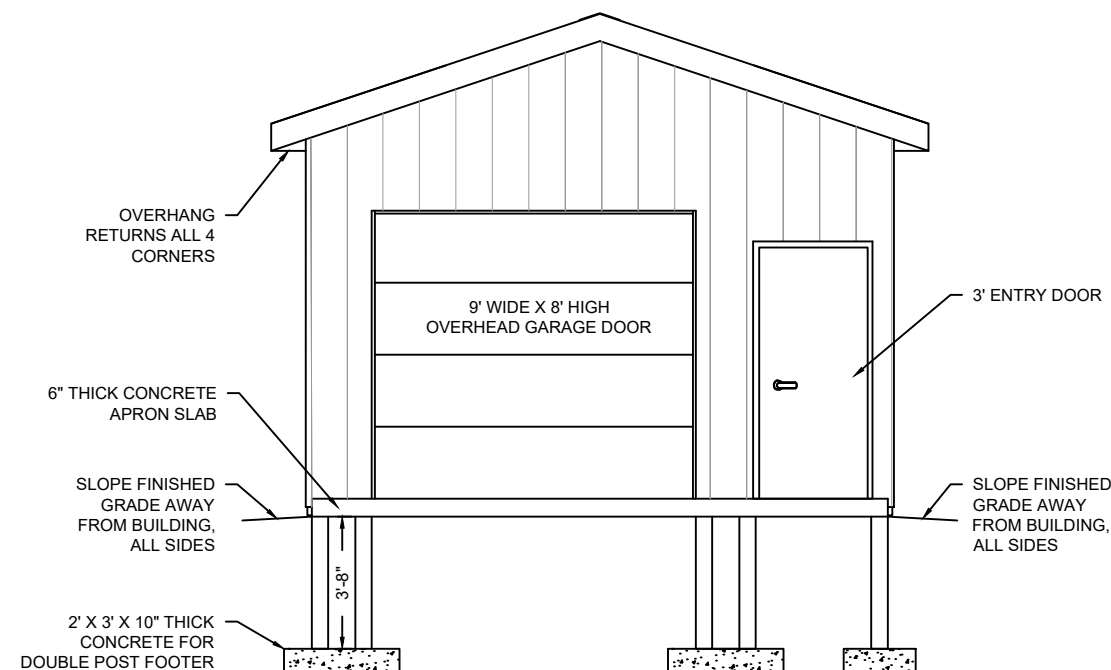
SCALE: 1" = 30'



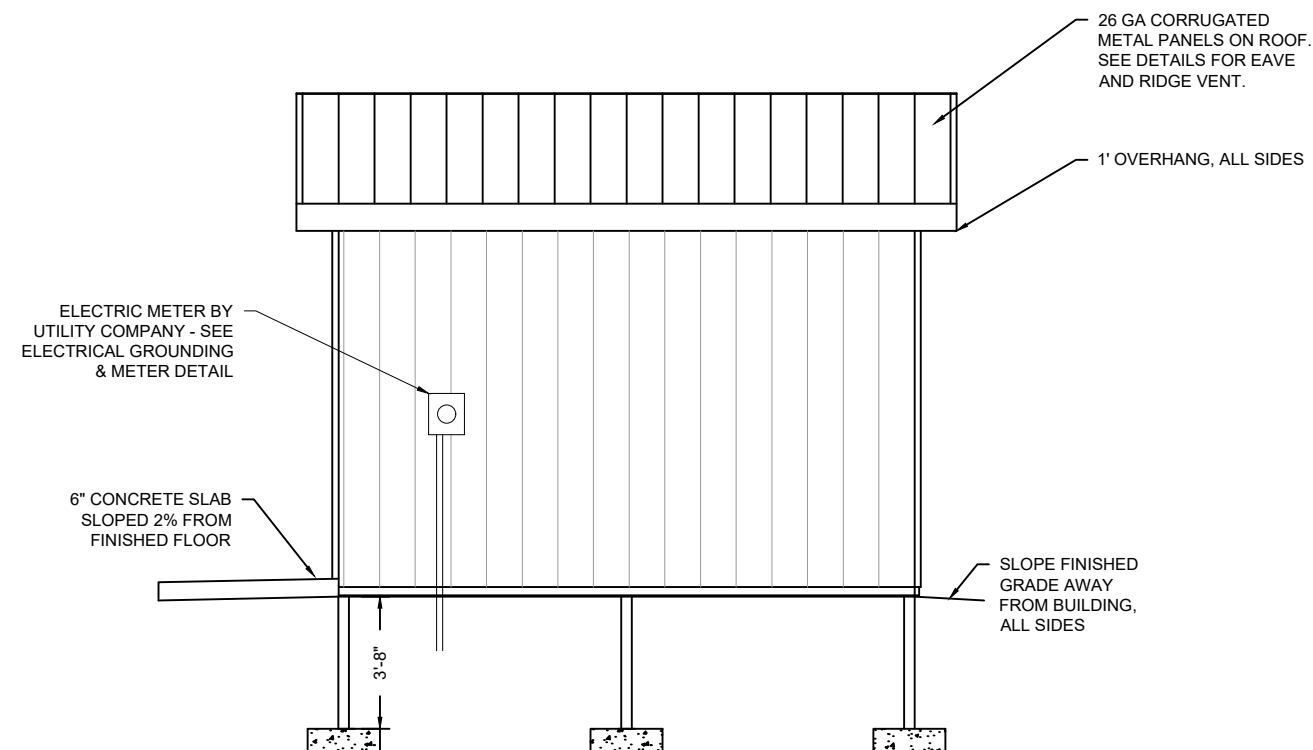
NORTH WEST WELL HOUSE GABLE WALL ELEVATION



SOUTH WEST WELL HOUSE EAVE WALL ELEVATION



SOUTH EAST WELL HOUSE GABLE WALL ELEVATION



NORTH EAST WELL HOUSE EAVE WALL ELEVATION



SCALE: 3/8" = 1'



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PROJECT NAME

**LOLETA
RECREATION
AREA WATER
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IMPROVEMENTS -
PHASE 1**

**ALLEGHENY
NATIONAL FOREST**

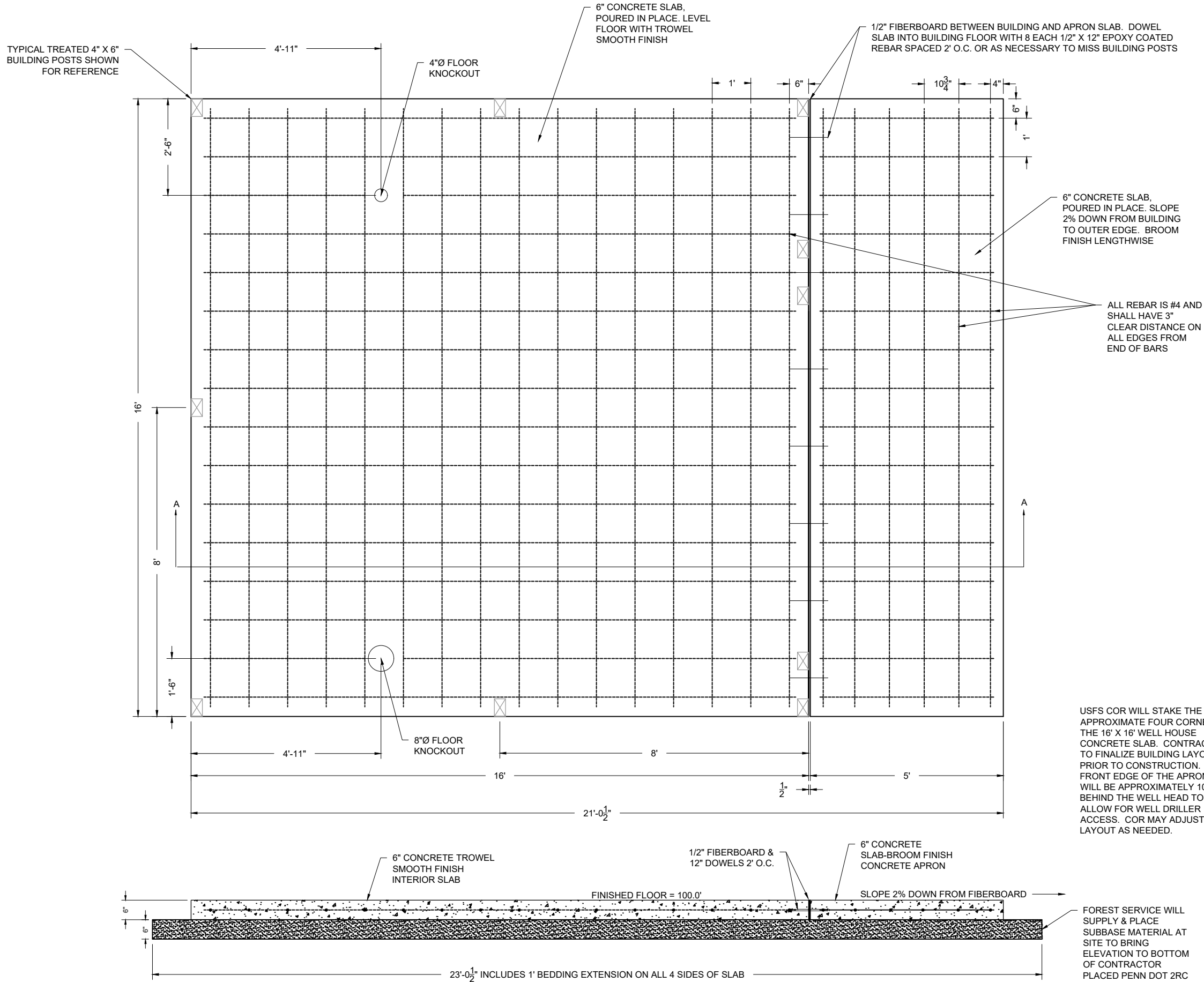
**MARIENVILLE
RANGER DISTRICT**

DRAWING TITLE

WELL HOUSE ELEVATIONS

DATE 01/21/2025	ARCHIVE NO.	
DESIGNER R. SUTTON	DRAWING SHEET NO. A-01	
DRAWN R. SUTTON		
CHECKED A. LESHER	SHEET 4 OF 12	
PROJECT NO. 091902-RWS-2024-0002D		

2/3/25 09:38 RUSUTTON C:\USERS\RUSUTTON\BOXR09 RO ENG PROGRAMS\7420 WATER & 7430 WASTE WATER\JAY&RUSS W\WW FILES\ANFW\WW SYSTEMS\LOLETA UPPER WELLILOLETA WS INFO FOR CONTRACT PREP 2023\CAD\LOLETA CG WS DESIGN 1-30-2025.DWG;



SLAB SECTION A-A

NOTE BUILDING POSTS NOT SHOWN IN CROSS SECTION FOR CLARITY

USFS COR WILL STAKE THE APPROXIMATE FOUR CORNERS OF THE 16' X 16' WELL HOUSE CONCRETE SLAB. CONTRACTOR TO FINALIZE BUILDING LAYOUT PRIOR TO CONSTRUCTION. THE FRONT EDGE OF THE APRON SLAB WILL BE APPROXIMATELY 10' BEHIND THE WELL HEAD TO ALLOW FOR WELL DRILLER ACCESS. COR MAY ADJUST LAYOUT AS NEEDED.

FOREST SERVICE WILL SUPPLY & PLACE SUBBASE MATERIAL AT SITE TO BRING ELEVATION TO BOTTOM OF CONTRACTOR PLACED PENN DOT 2RC 6" COMPACTED BASE COURSE



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**LOLETA
RECREATION
AREA WATER
SYSTEM
IMPROVEMENTS -
PHASE 1**

**ALLEGHENY
NATIONAL FOREST**

**MARIENVILLE
RANGER DISTRICT**

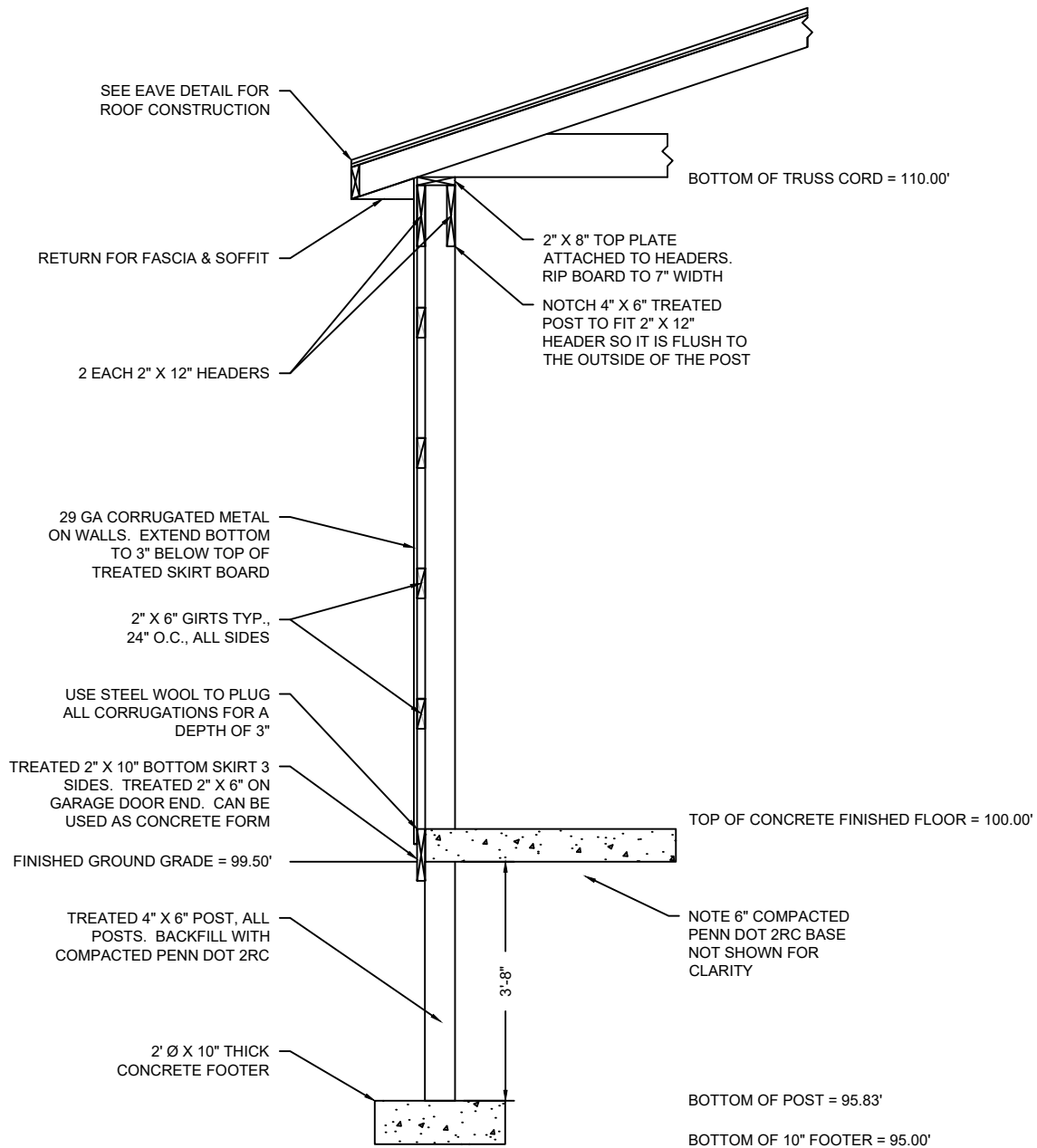
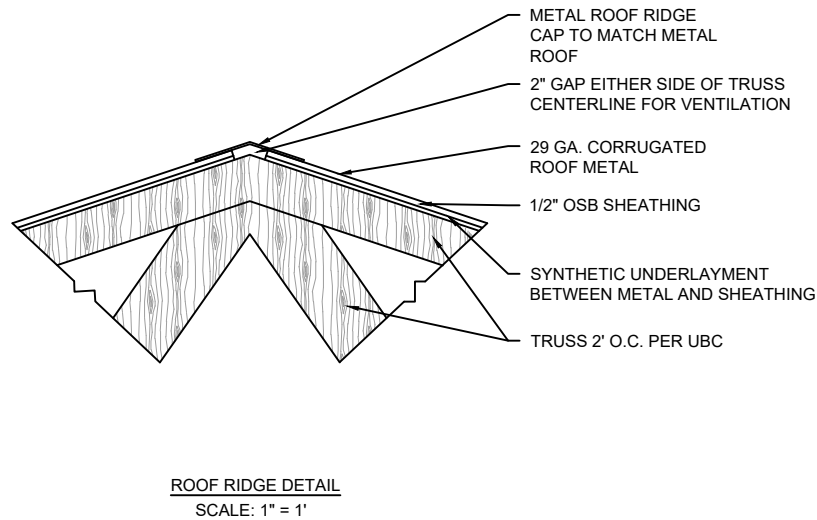
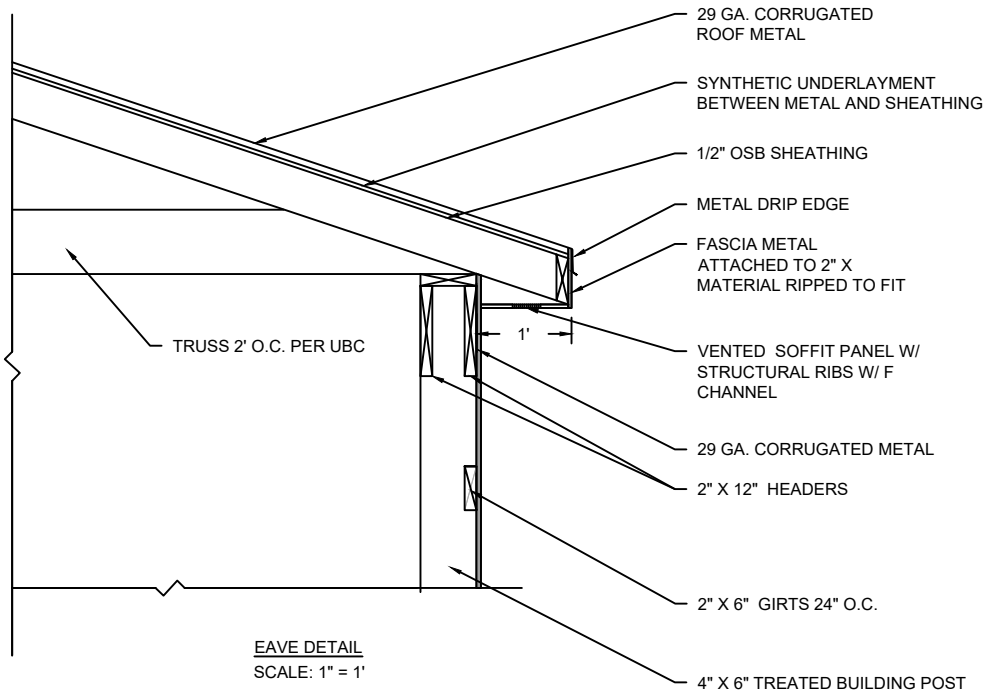
DRAWING TITLE

**WELL HOUSE
CONCRETE SLAB**

DATE 01/21/2025	ARCHIVE NO.
DESIGNER R. SUTTON	DRAWING SHEET NO. A-02
DRAWN R. SUTTON	
CHECKED A. LESHER	
PROJECT NO. 091902-RWS2024-0002D	SHEET 5 OF 12

0 1 2 Feet
SCALE: 3/4" = 1'

2/2/25 09:38 RUSUTTON C:\USERS\RUSUTTON\BOXR09 RO ENG PROGRAMS\7420 WATER & 7430 WASTE WATER\JAY&RUSS W\WW FILES\ANFW\WW SYSTEMS\LOLETA UPPER WELL\LOLETA WS INFO FOR CONTRACT PREP 2023\CAD\LOLETA CG WS DESIGN 1-30-2025.DWG;



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PROJECT NAME

LOLETA
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SYSTEM
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PHASE 1

ALLEGHENY
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MARIENVILLE
RANGER DISTRICT

DRAWING TITLE

WELL HOUSE
BUILDING DETAILS

DATE 01/21/2025	ARCHIVE NO.
DESIGNER R. SUTTON	DRAWING SHEET NO. A-03
DRAWN R. SUTTON	
CHECKED A. LESHER	
PROJECT NO. 091902-RWS2024-0002D	SHEET 6 OF 12

0 1 2 Feet

SCALE: $\frac{3}{4}" = 1'$

4" SCH 80 PVC DISCHARGE

8" Ø FLOOR KNOCKOUT

4'-6 $\frac{1}{8}$ "

4" SCH 80 PVC DISCHARGE

DISCHARGE FROM PRIMARY TANK

DISCHARGE FROM SECONDARY TANK

SMOOTH NOSED SAMPLE TAP (ENTRY POINT); APPROX. 1.5' ABOVE FF

F.F. = 100.00'

TEE FITTING FOR SUPPLY LINE TO SECONDARY TANK

CHLORINATION PORT

PPS

PPS

WM

4" Ø FLOOR KNOCKOUT

PRIMARY 305 GALLON NSF61 HDPE TANK W/ FLOAT

2" TANK CONNECTION BUSHED DOWN TO 1" BRASS BARB FITTINGS AND USE 6" FLEXIBLE CLEAR BRAIDED HOSE FOR TANK CONNECTION

SECONDARY 305 GALLON NSF61 HDPE TANK REQUIRED FOR ADDITIONAL CHLORINE CONTACT TIME. PIPE ENTRY AND DISCHARGE LOCATIONS/ELEVATIONS TO MATCH THAT OF THE PRIMARY TANK.

3'-10 $\frac{7}{8}$ "

4" TANK CONNECTION

4" SCH 80 PVC DISCHARGE WITH INVERT AT 165 GALLON TANK MARK

4" WYE FITTING TO PICK UP SECONDARY CHLORINE CONTACT TANK; DIRECTION OF WYE FOR ILLUSTRATIVE PURPOSES ONLY

SMOOTH NOSED SAMPLE TAP (ENTRY POINT); APPROX. 1.5' ABOVE F.F.; DIRECTION FOR ILLUSTRATIVE PURPOSES ONLY

FINISHED FLOOR = 100.00'

NEW 4" SCH 80 PVC TO VALVE BOX

2"

6" CONCRETE SLAB

8" Ø FLOOR KNOCKOUT

1-6"

TANK TO SIT ON TWO ROWS CEMENT BLOCKS, 38 TOTAL

2" TANK CONNECTION BUSHED DOWN TO 1" BRASS BARB FITTINGS AND USE 6" FLEXIBLE CLEAR BRAIDED HOSE FOR TANK CONNECTION

TEE FITTING FOR SUPPLY LINE TO SECONDARY TANK

CHLORINATION PORT

1" GALVANIZED IRON PIPE

BOILER DRAIN VALVES WITH VACUUM BREAKERS

2'-6"

4" Ø FLOOR KNOCKOUT

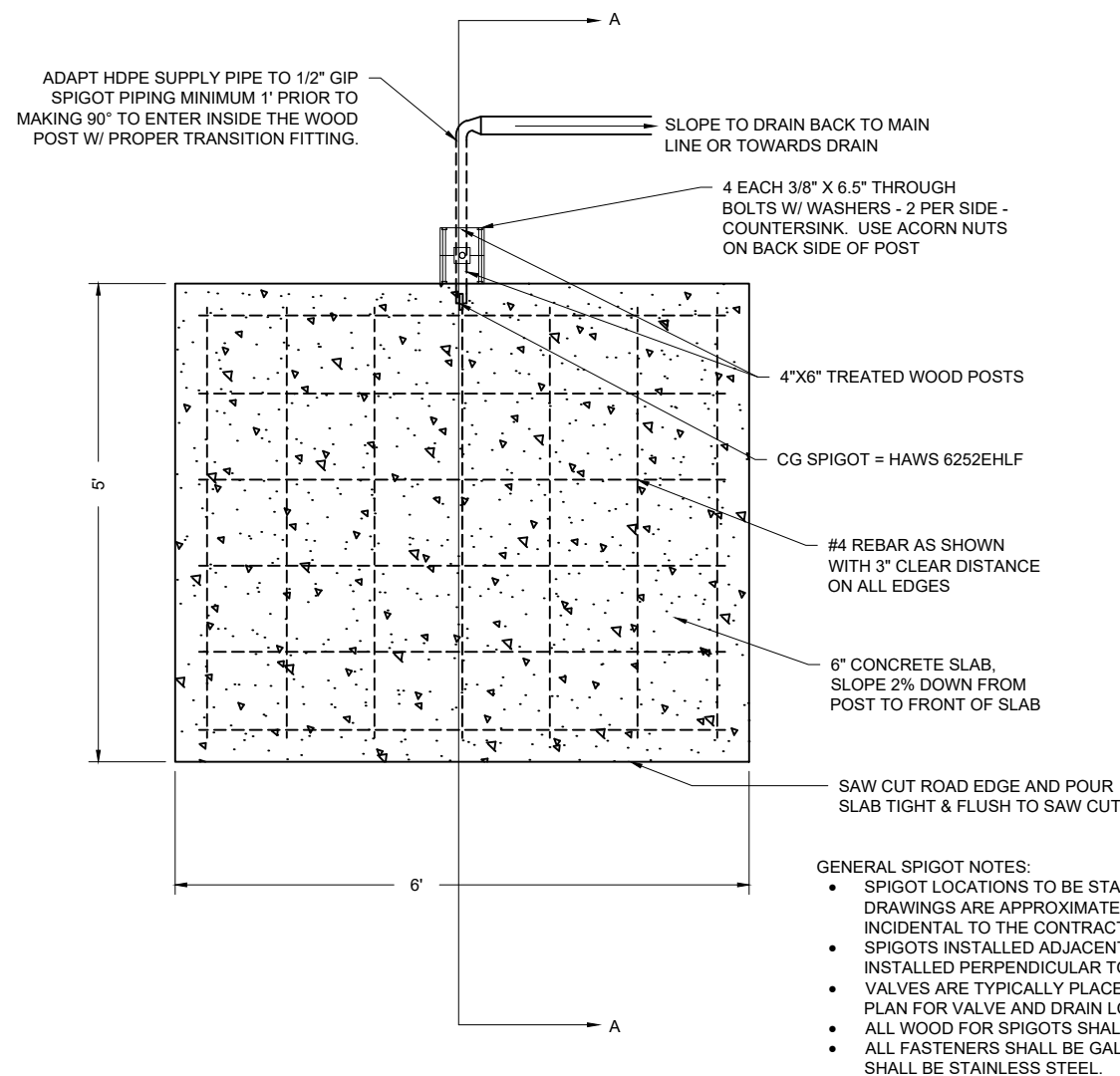
1" HDPE

TRANSITION HDPE TO GIP ABOVE FLOOR & BELOW GIP UNION

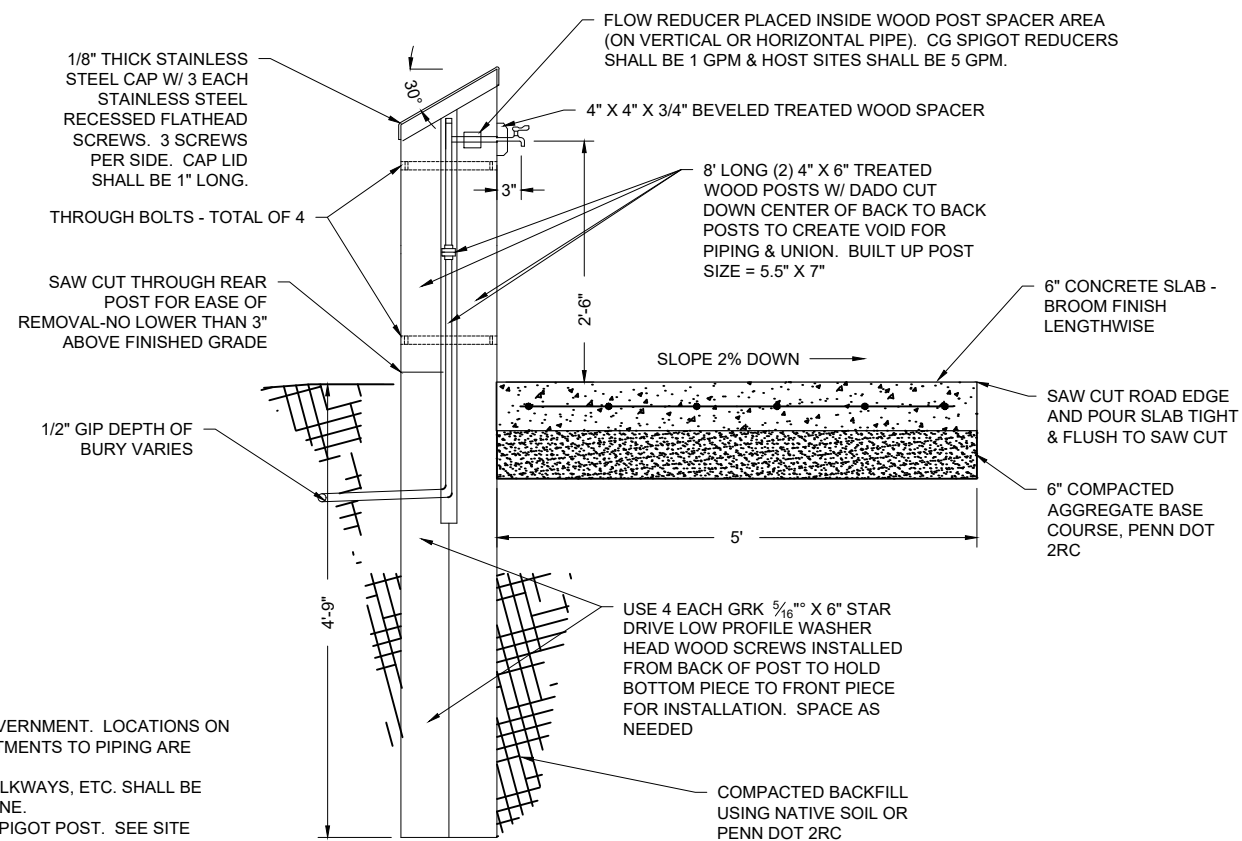
NEAR TANK LID OPENING FOR EASY ACCESS USING STAINLESS STEEL HARDWARE.

SMOOTH NOSED SAMPLE TAP 2' ABOVE FF.

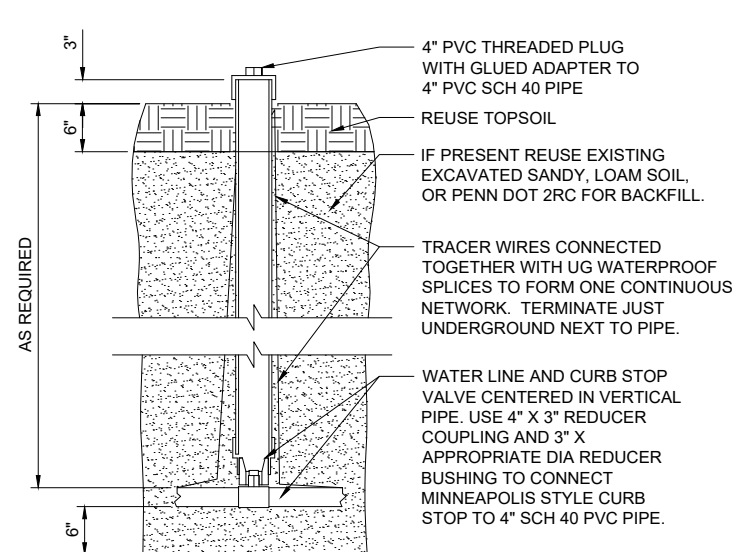
DATE 01/21/2025	ARCHIVE NO.
DESIGNER R. SUTTON	DRAWING SHEET NO. P-01
DRAWN R. SUTTON	
CHECKED A. LESHER	
PROJECT NO. 091902-RWS-2024-0002D	SHEET 7 OF 12



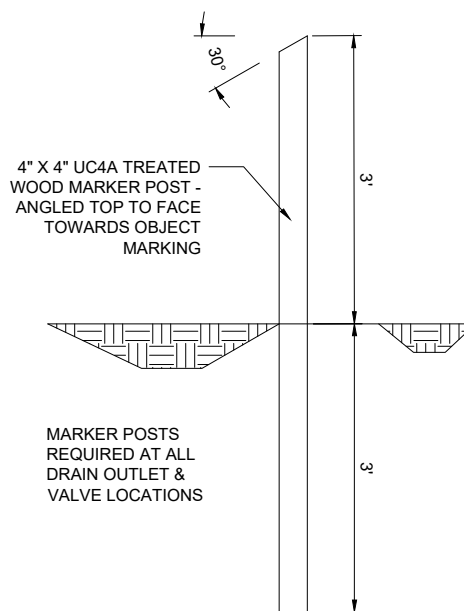
WATER SPIGOT AND PAD
PLAN VIEW



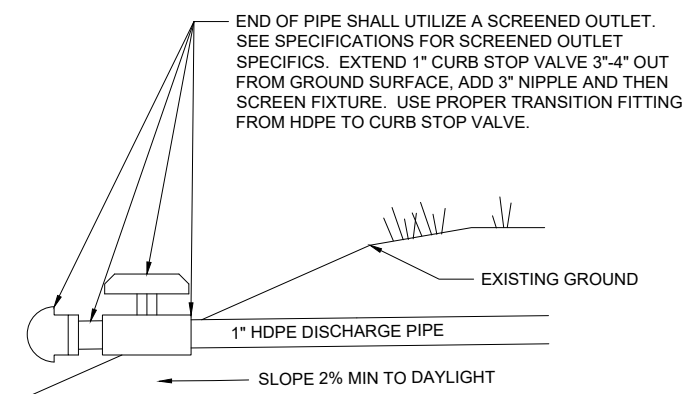
WATER SPIGOT SECTION A-A



SPIGOT VALVE BOX



MARKER POST



SCREENED END FOR SPIGOT DRAIN LINE



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**LOLETA
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AREA WATER
SYSTEM
IMPROVEMENTS -
PHASE 1**

ALLEGHENY
NATIONAL FOREST

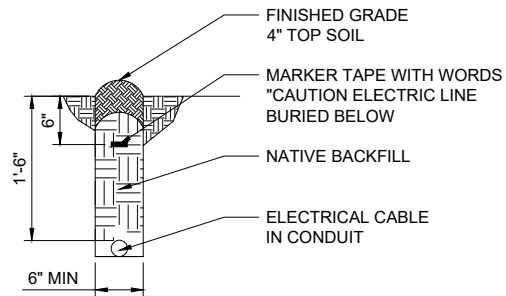
MARIENVILLE
RANGER DISTRICT

DRAWING TITLE

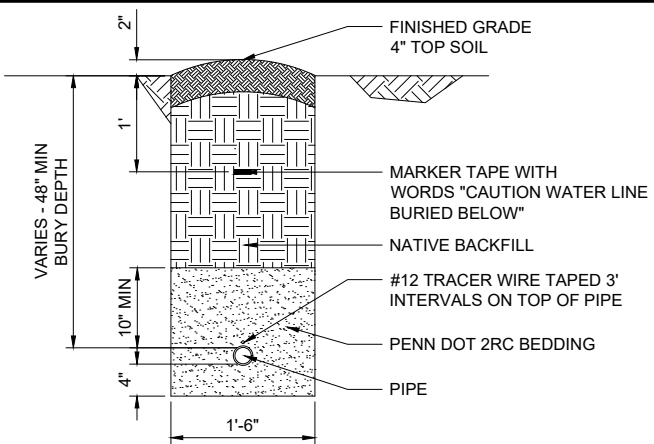
SPIGOT, VALVE & DRAIN DETAILS

DATE 01/21/2025	ARCHIVE NO.	
DESIGNER R. SUTTON	DRAWING SHEET NO.	
DRAWN R. SUTTON	P-03	
CHECKED A. LESHER		
PROJECT NO. 091902-RWS2024-0002D	SHEET 9	OF 12

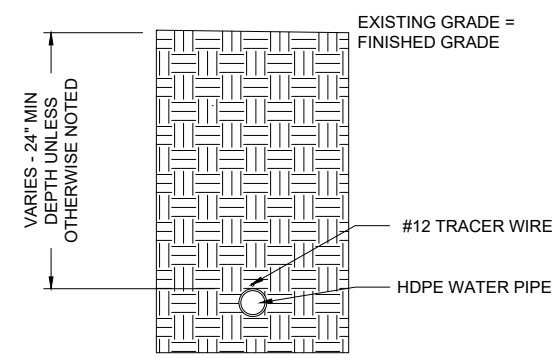
2/2/25 09:36 RJSUTTON C:\USERS\RJSUTTON\BOXR09 RO ENG PROGRAMS\7420 WATER & 7430 WASTE WATER\JAW&RUSS W&WW FILES\ANF W&WW SYSTEMS\LOLETA UPPER WELLS\LOLETA CG WS DESIGN 1-30-2025.DWG;



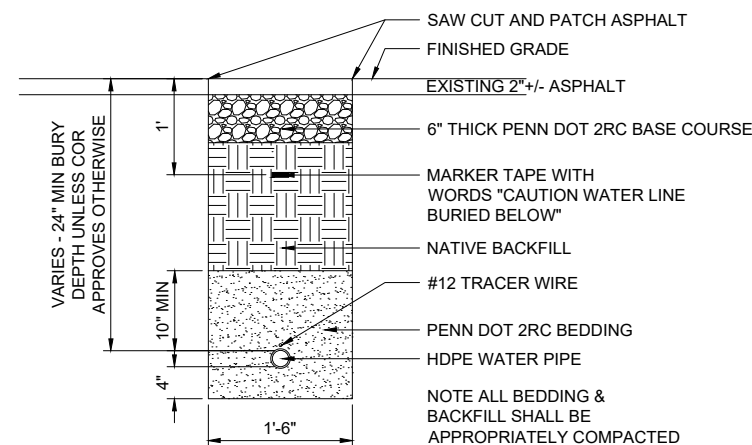
ELECTRICAL TRENCH DETAIL



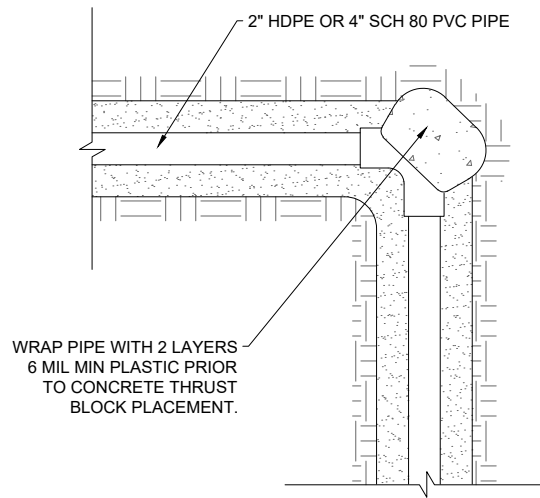
TYPICAL TRENCH - WATER LINE



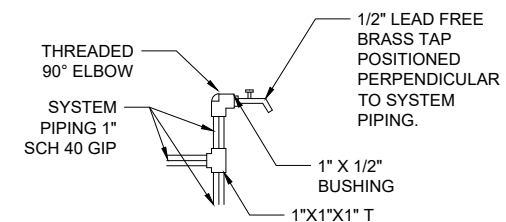
TYPICAL TRENCH - WATER PIPE DIRECTIONAL BORED



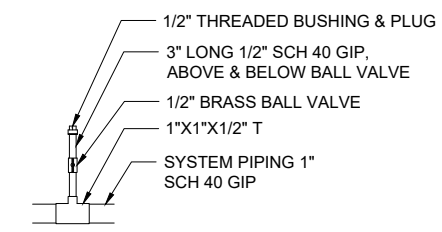
TYPICAL TRENCH - WATER LINE IN PAVED ROAD



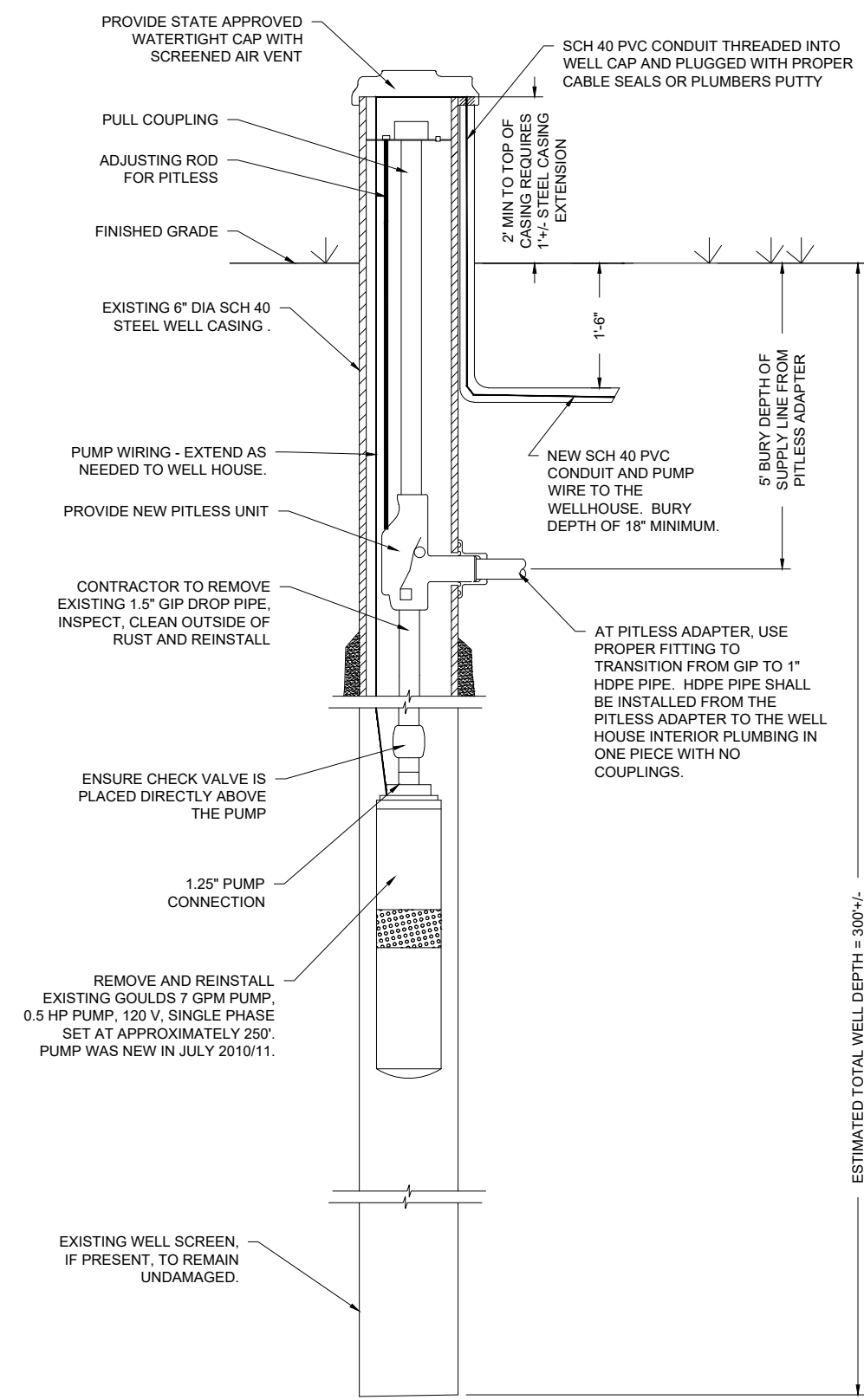
HORIZONTAL / VERTICAL PIPE BEND 22.5° - 90° THRUST BLOCK = 1 BAG MIXED QUICKCRETE



SMOOTH NOSED SAMPLE TAP



CHLORINATION PORT



WELL & SUBMERSIBLE PUMP DETAIL NTS

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LOLETA RECREATION AREA WATER SYSTEM IMPROVEMENTS - PHASE 1

ALLEGHENY NATIONAL FOREST

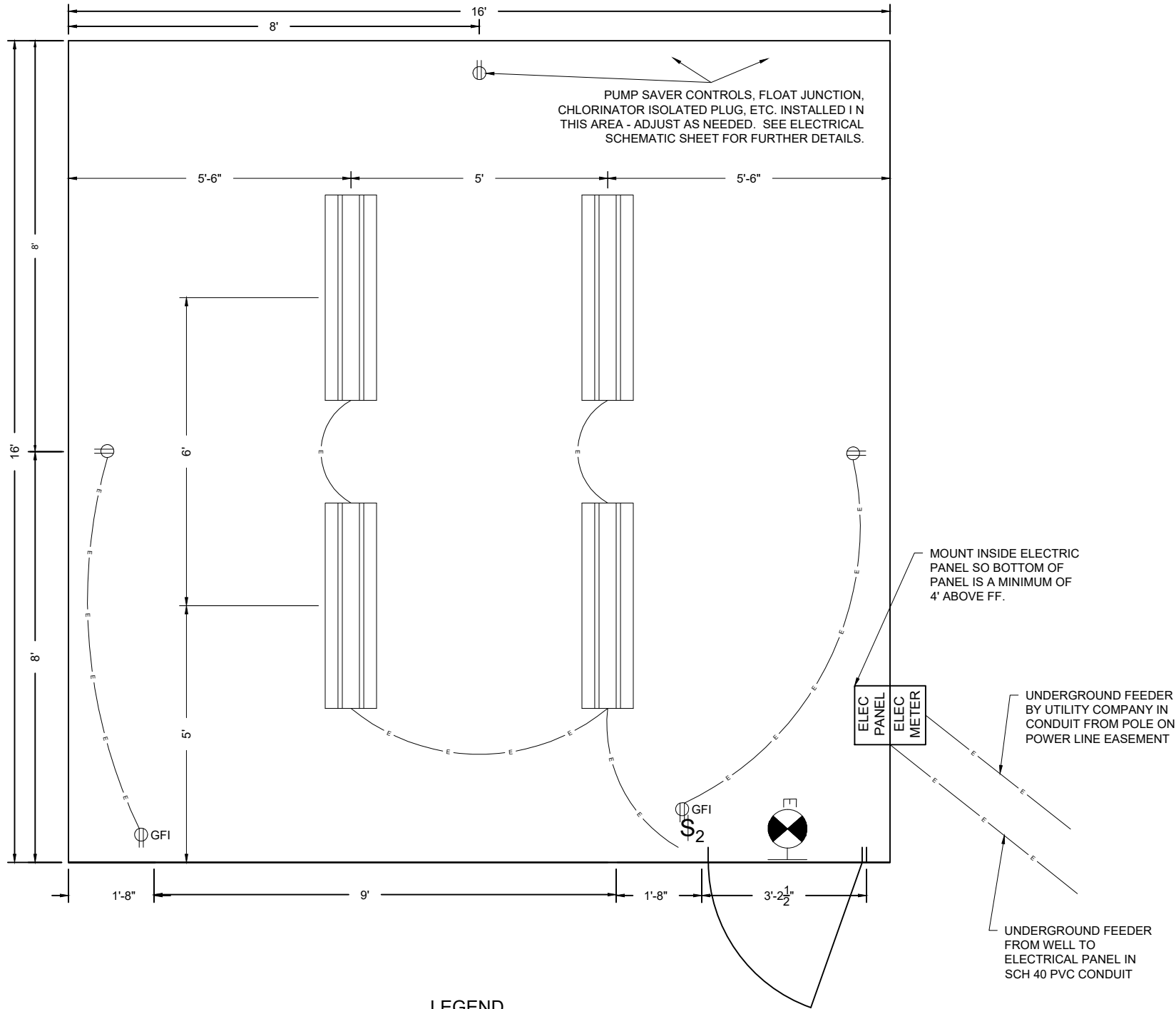
MARIENVILLE RANGER DISTRICT

DRAWING TITLE

MISCELLANEOUS DETAILS

DATE 01/21/2025	ARCHIVE NO.
DESIGNER R. SUTTON	DRAWING SHEET NO. P-04
DRAWN R. SUTTON	
CHECKED A. LESHER	
PROJECT NO. 091902-RWS2024-0002D	SHEET 10 OF 12

2/2/25 09:38 RUSUTTON C:\USERS\RUSUTTON\BOXIR09\RO ENG PROGRAMS\7420 WATER & 7430 WASTE WATER\JAY & RUSUTTON FILES\ANF\WAWW SYSTEMS\LOLETA UPPER WELLS\LOLETA CG WS DESIGN 1-30-2025.DWG;



LEGEND

- | | | | |
|--|------------------------------------|--|--|
| | 2 PLUG RECEPTACLE | | 2 PLUG GROUND-FAULT INTERRUPT RECEPTACLE INSTALLED UPSTREAM OF OTHER RECEPTACLE(S) |
| | TWO POLE LIGHT SWITCH | | 4' LED CEILING LIGHT FIXTURE |
| | EXIT BATTERY BACK-UP LIGHT FIXTURE | | ELECTRIC WIRING |

SCALE: 3/4" = 1'



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PROJECT NAME

LOLETA
RECREATION
AREA WATER
SYSTEM
IMPROVEMENTS -
PHASE 1

ALLEGHENY
NATIONAL FOREST

MARIENVILLE
RANGER DISTRICT

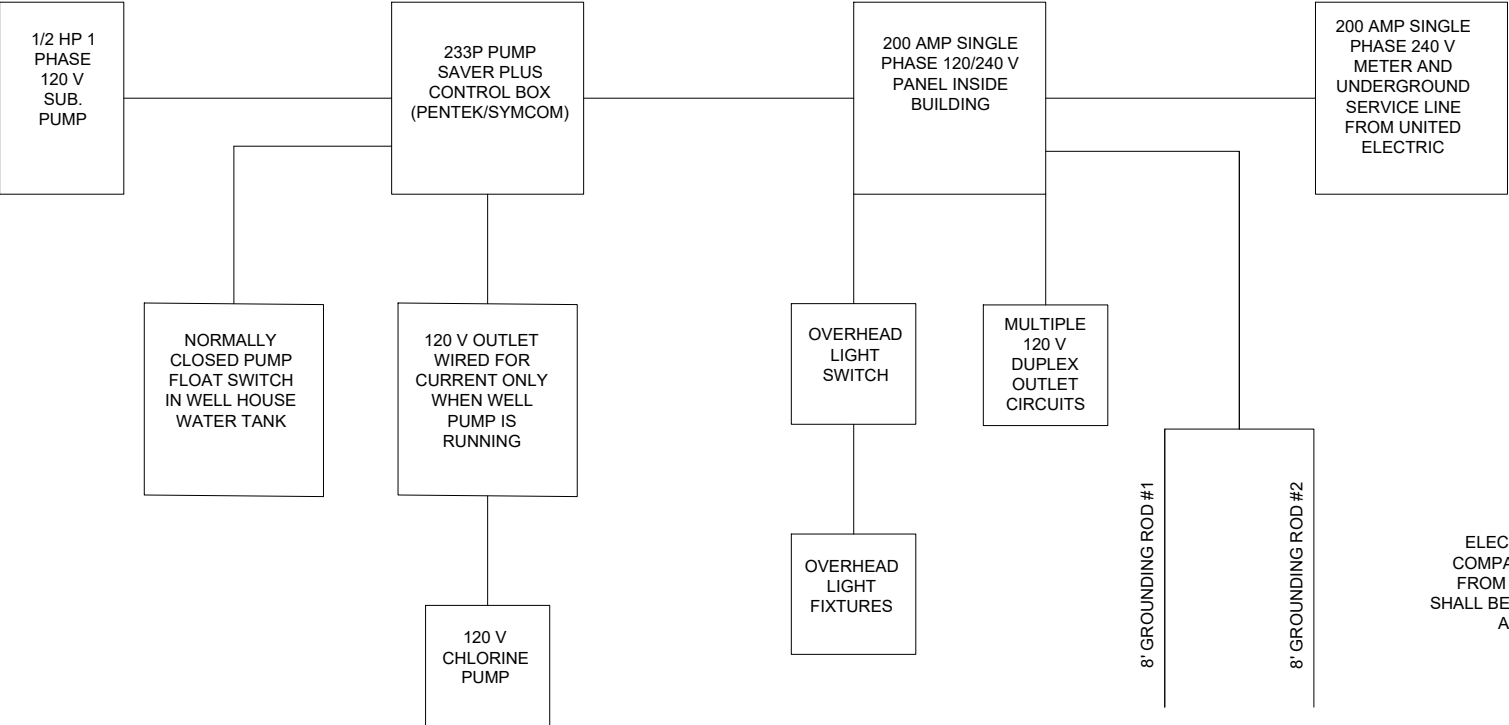
DRAWING TITLE

ELECTRICAL
LAYOUT

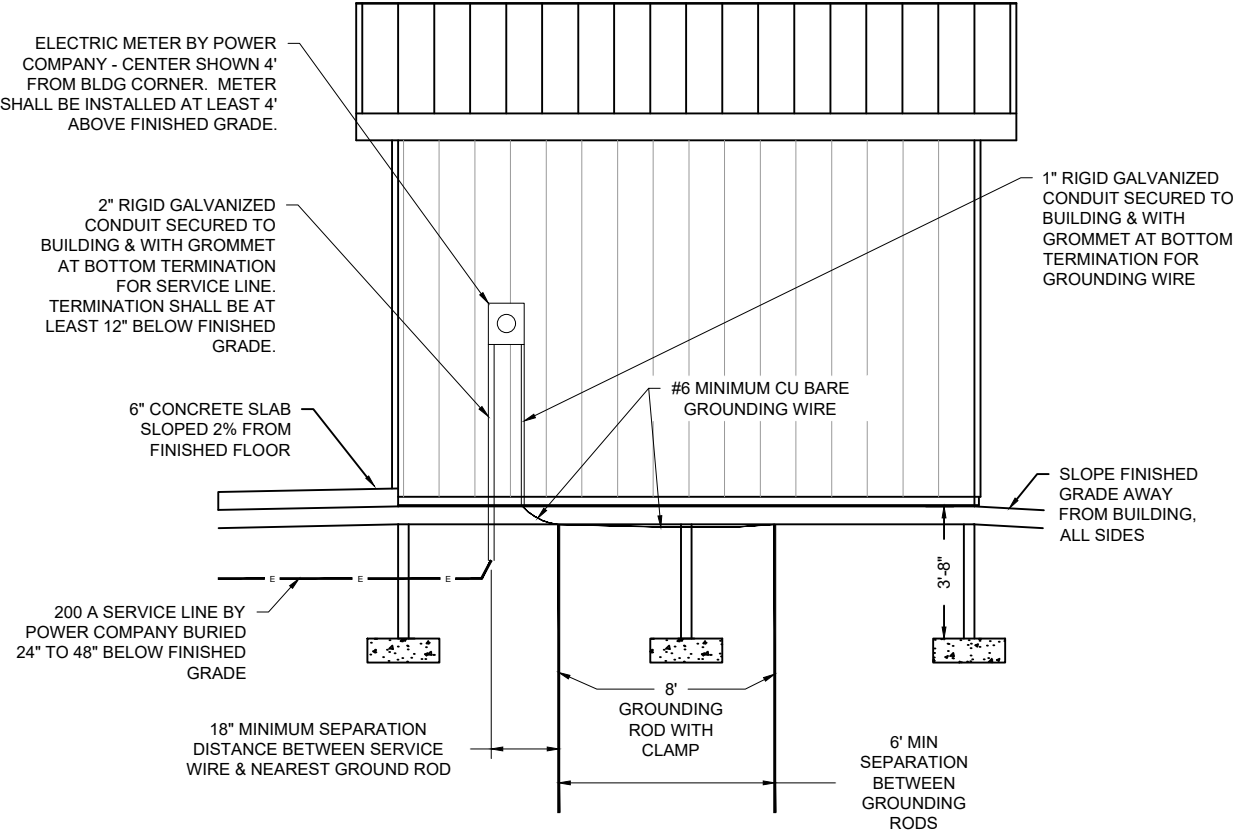
DATE 01/21/2025	ARCHIVE NO.
DESIGNER R. SUTTON	DRAWING SHEET NO. E-01
DRAWN R. SUTTON	
CHECKED A. LESHER	
PROJECT NO. 091902-RWS2024-0002D	SHEET 11 OF 12

2/2/25 09:36 RUSUTTON C:\USERS\RUSUTTON\BOXR09 RO ENG PROGRAMS\7420 WATER & 7430 WASTE WATER\JAY & RUSS FILES\ANF W&WW SYSTEMS\LOLETA UPPER WELLILOLETA WS INFO FOR CONTRACT PREP 2023\CAD\LOLETA CG WS DESIGN 1-30-2025.DWG;

- NOTES:
- THIS NOT-TO-SCALE SCHEMATIC SHOWS THE GENERAL ARRANGEMENT FOR THE WELL HOUSE ELECTRICAL EQUIPMENT. CONTRACTOR SHALL WORK WITH THE USFS COR DURING PLACEMENT OF EQUIPMENT TO ENSURE IT WILL BE IN A CONVENIENT LOCATION FOR OPERATION. SEE THE BUILDING PIPING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - ALL ELECTRICAL WORK SHALL BE PERFORMED BY A QUALIFIED/EXPERIENCED ELECTRICIAN IN COMPLIANCE WITH THE CURRENT NEC. WELL CONNECTION ELECTRICAL WORK CAN BE PERFORMED BY THE LICENSED WELL DRILLER.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE POWER SUPPLY CONNECTION WITH UNITED ELECTRIC POWER COMPANY AND IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND ASSOCIATED FEES.
 - NEW POWER PANEL AND ALL CONTROLS SHALL BE NEATLY MOUNTED ON AN ADEQUATELY SIZED PIECES OF 3/4" TREATED PLYWOOD.
 - ALL ELECTRICAL CONDUCTORS SHALL BE COPPER.
 - ALL INTERIOR BUILDING ELECTRICAL CONDUCTORS SHALL BE RUN IN ELECTRICAL METALLIC TUBING (EMT) OR WHEN NECESSARY, LIQUID TIGHT NONMETALLIC CONDUIT.



WELL HOUSE ELECTRICAL PANEL SCHEDULE							
CIRCUIT	DESCRIPTION	PHASE	AMP	CIRCUIT	DESCRIPTION	PHASE	AMP
1	WELL HOUSE LIGHTS	1	15	2	WELL PUMP & CL PUMP	1	20
3	EXIT LIGHT	1	15	4	GFI #1	1	20
5	SPARE	1	20	6	GFI #2	1	20
7	SPARE	1	20	8	SPARE	1	20
9		-	-	10		-	-
11		-	-	12		-	-
13		-	-	14		-	-
15		-	-	16		-	-
17		-	-	18		-	-
19		-	-	20		-	-
21		-	-	22		-	-
23		-	-	24		-	-
25		-	-	26		-	-
27		-	-	28		-	-
29		-	-	30		-	-



- NOTES:
- ALL ELECTRICAL WORK SHALL BE PERFORMED BY A QUALIFIED/EXPERIENCED ELECTRICIAN IN COMPLIANCE WITH THE CURRENT NEC.
 - CONTRACTOR SHALL OBTAIN ALL NECESSARY ELECTRICAL PERMITS.
 - CONTRACTOR SHALL COORDINATE ALL ELECTRICAL PRIMARY AND SERVICE LINE WORK WITH LOCAL POWER COMPANY.

WELL HOUSE ELECTRICAL GROUNDING & METER INSTALL

SCALE 1" = 1'



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IMPROVEMENTS -
PHASE 1

ALLEGHENY
NATIONAL FOREST

MARIENVILLE
RANGER DISTRICT

DRAWING TITLE

ELECTRICAL
SCHEMATIC, WELL
HOUSE GROUNDING &
METER INSTALL

DATE 01/21/2025	ARCHIVE NO.
DESIGNER R. SUTTON	DRAWING SHEET NO. E-02
DRAWN R. SUTTON	
CHECKED A. LESHER	
PROJECT NO. 091902-RWS2024-0002D	SHEET 12 OF 12